

Figure 1:

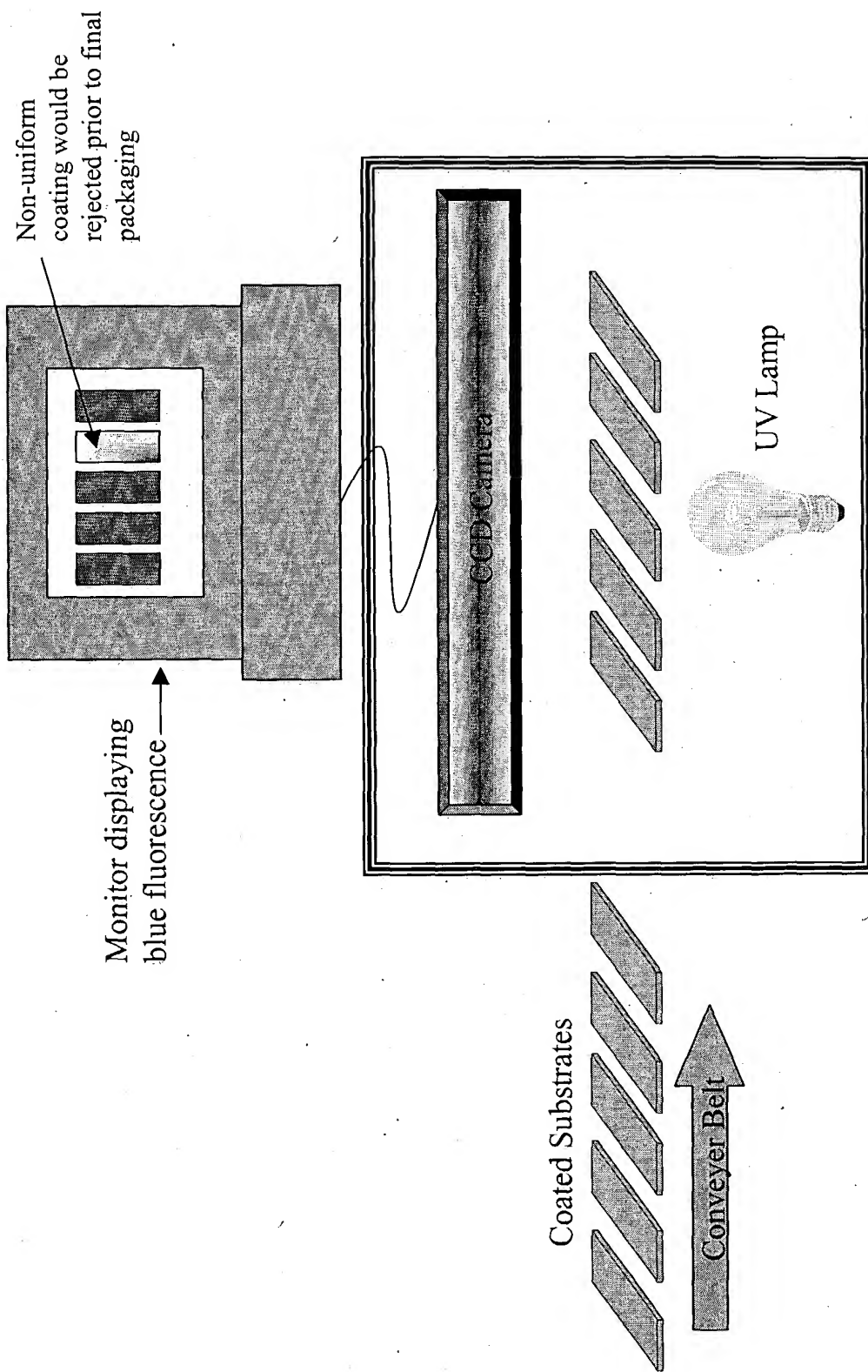
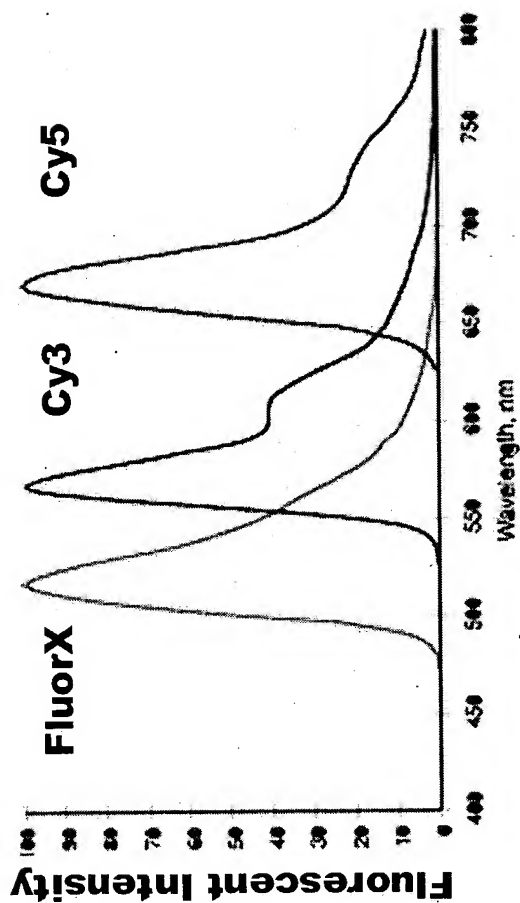


Figure 2:

	Cy3™(nm)	Cy5™(nm)
Excitation	523	635
Emission	540-610	630-710

Emission Spectra



* Amersham Life Science, Inc.

Figure 3:

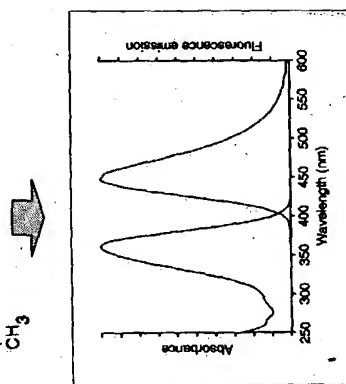
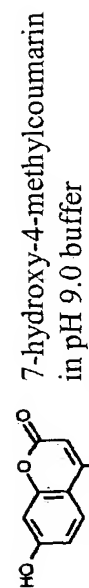
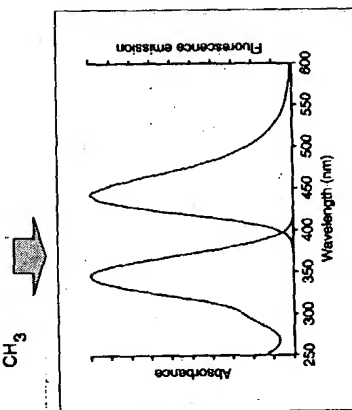
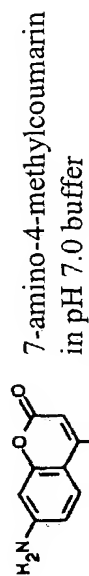
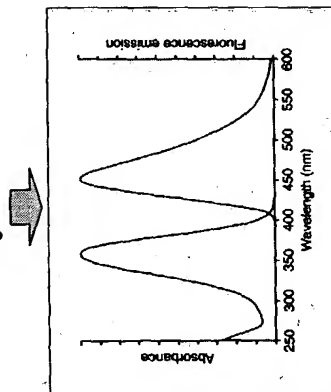
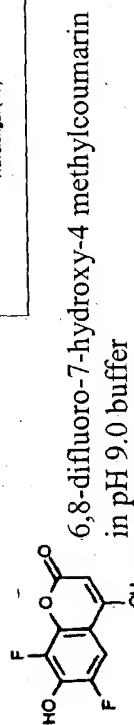
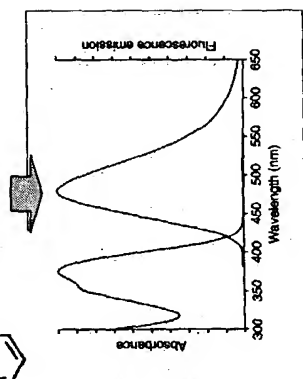
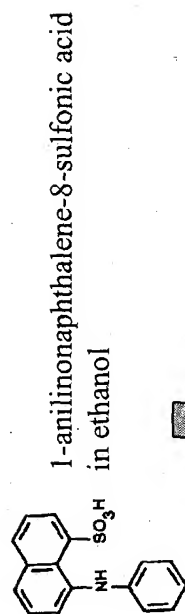
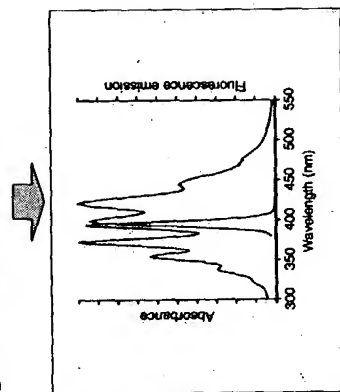
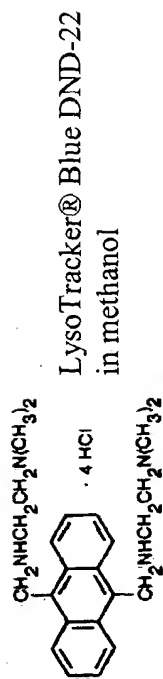
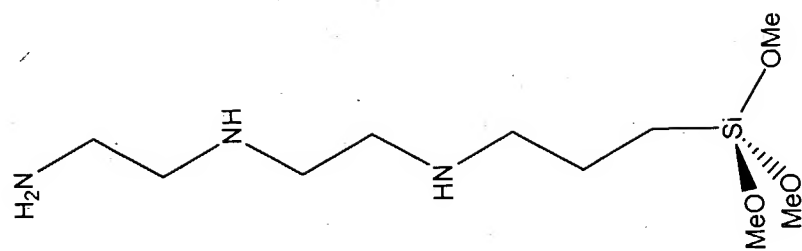
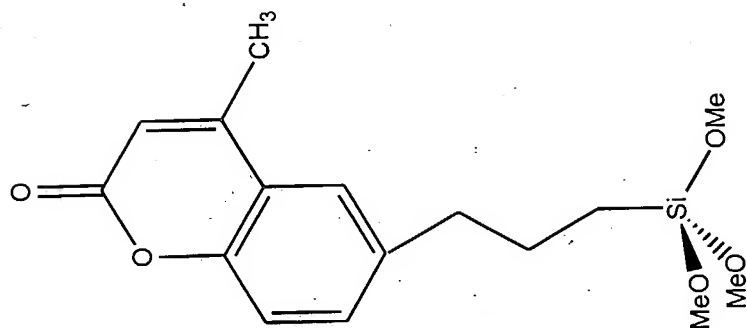


Figure 4



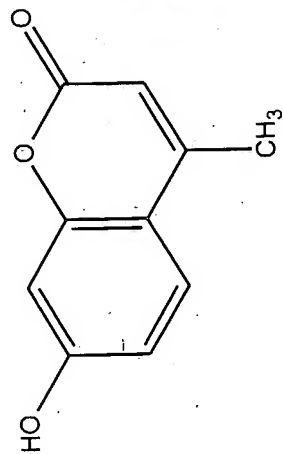
3-trimethoxysilylpropyl
diethylenetriamine (DETA)

Molecular Weight: 263.1 g/mol



(4-methylcoumarin)-3-
propyltrimethoxysilane

Molecular Weight: 322.1 g/mol



7-hydroxy-4-methylcoumarin



Figure 5:

FIGURE 6

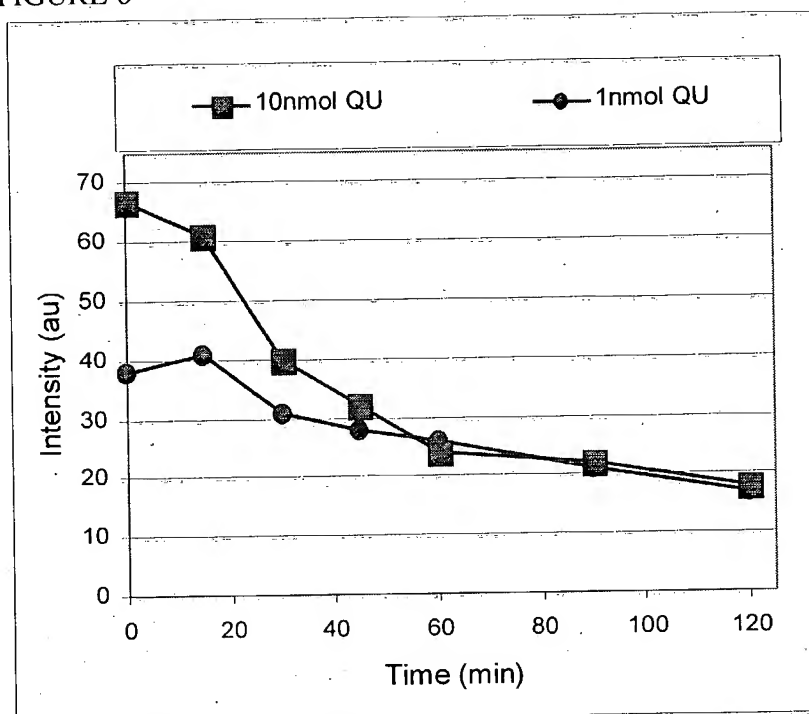


Figure 6:

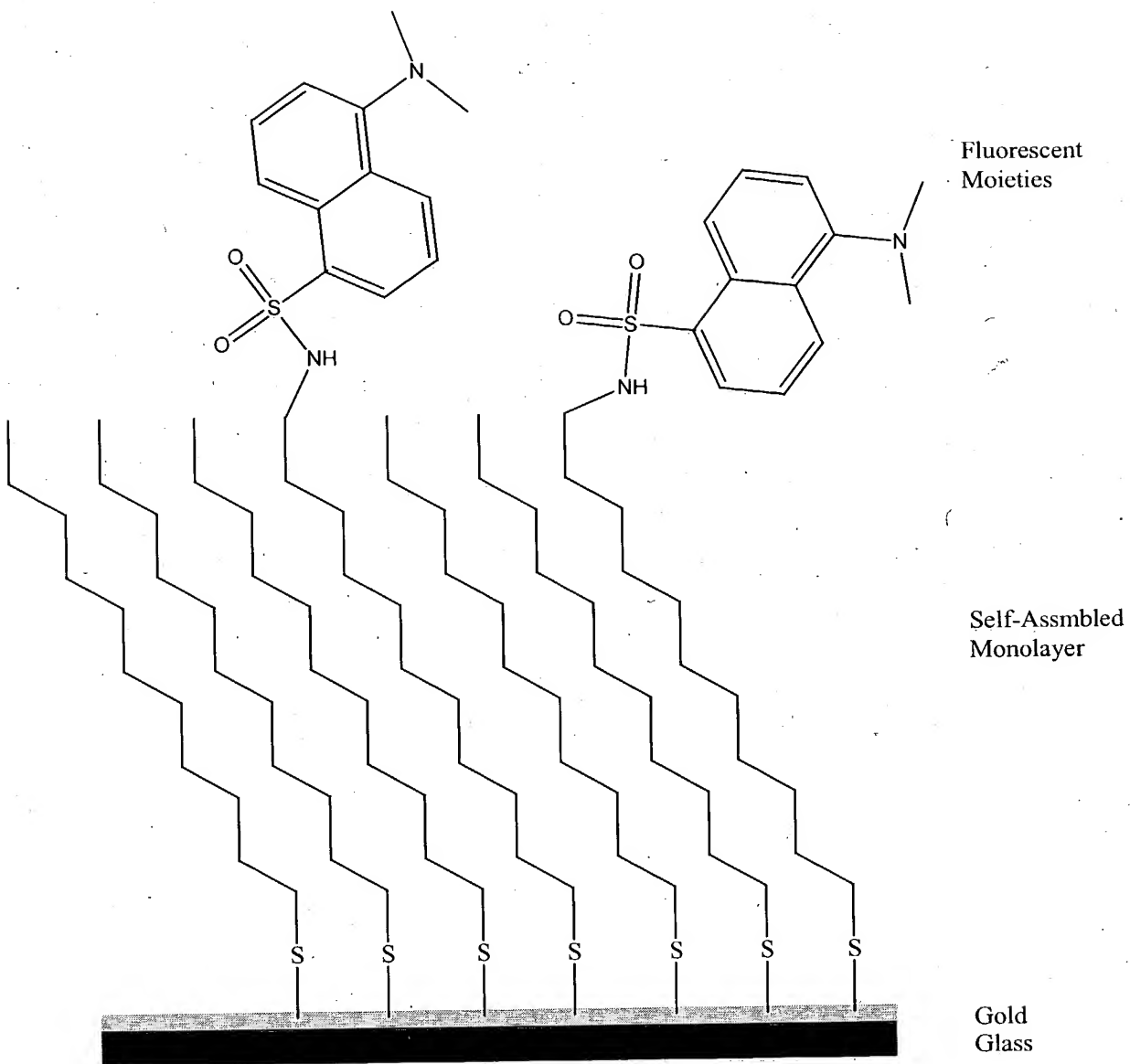
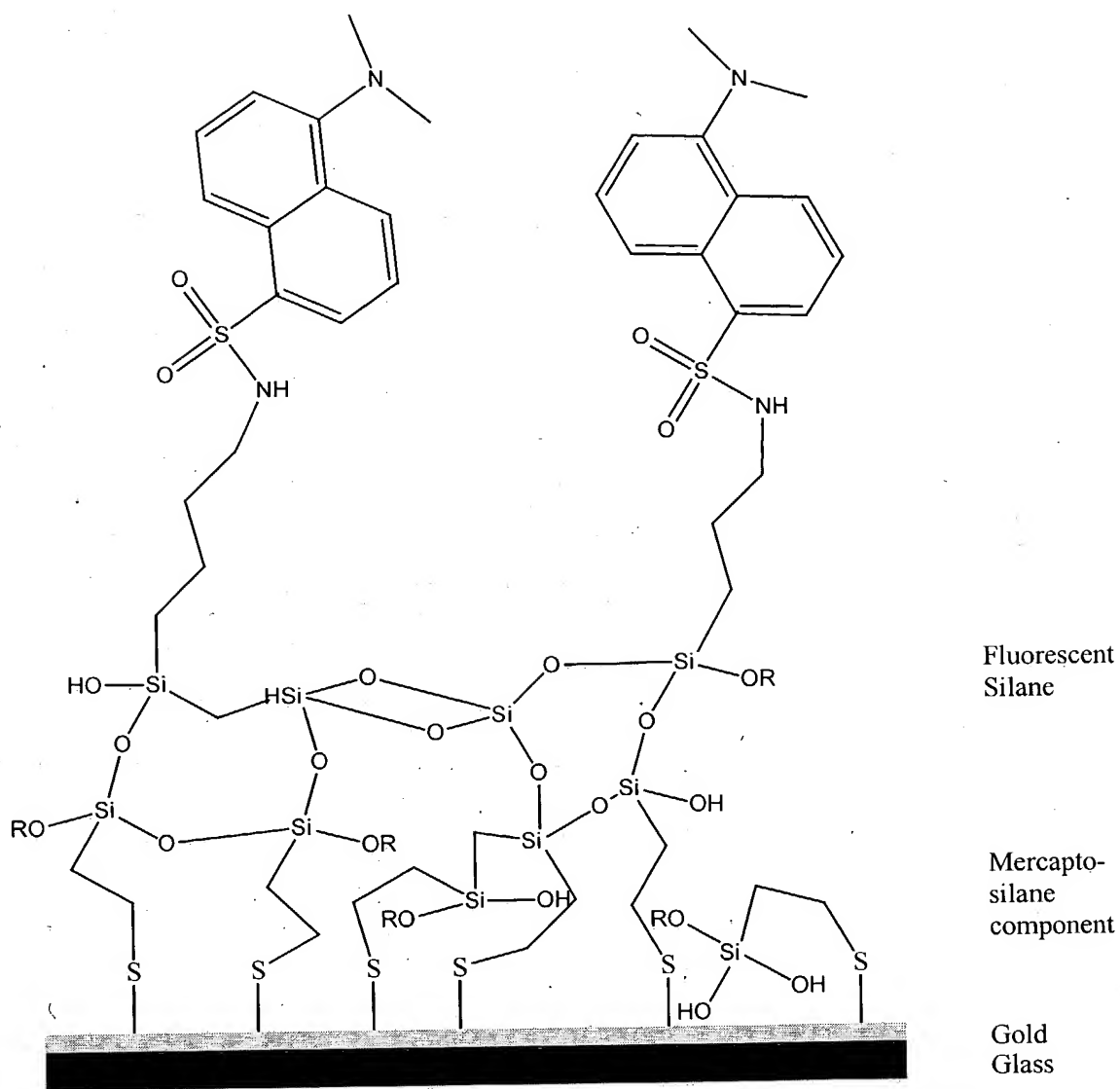


Figure 7



Gold surface + mercaptosilane $\{\text{Si}(\text{OR})_3(\text{CH}_2)_n\text{SH}\}$ + fluorescent silane, $\{\text{Si}(\text{OR})_3(\text{CH}_2)_n(\text{fluorophore})\}$

Figure 8

Figure 9.

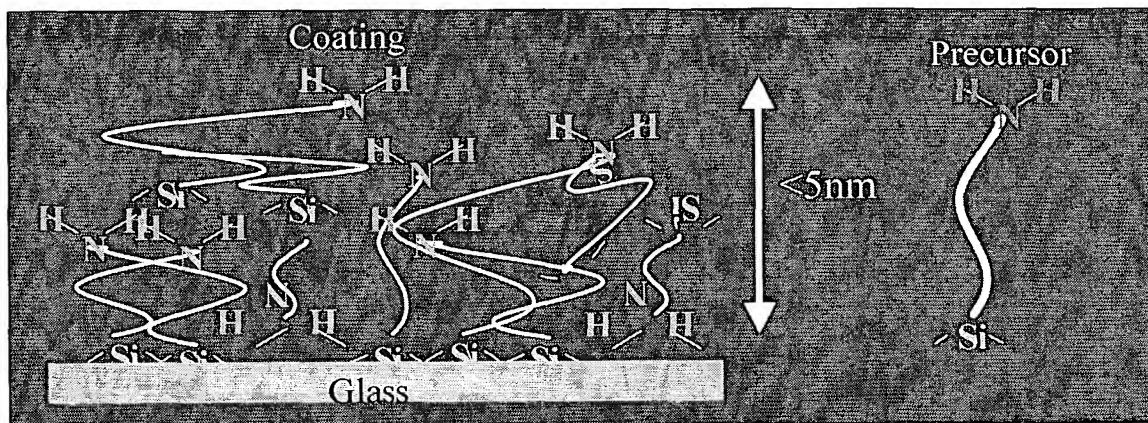


Figure 10

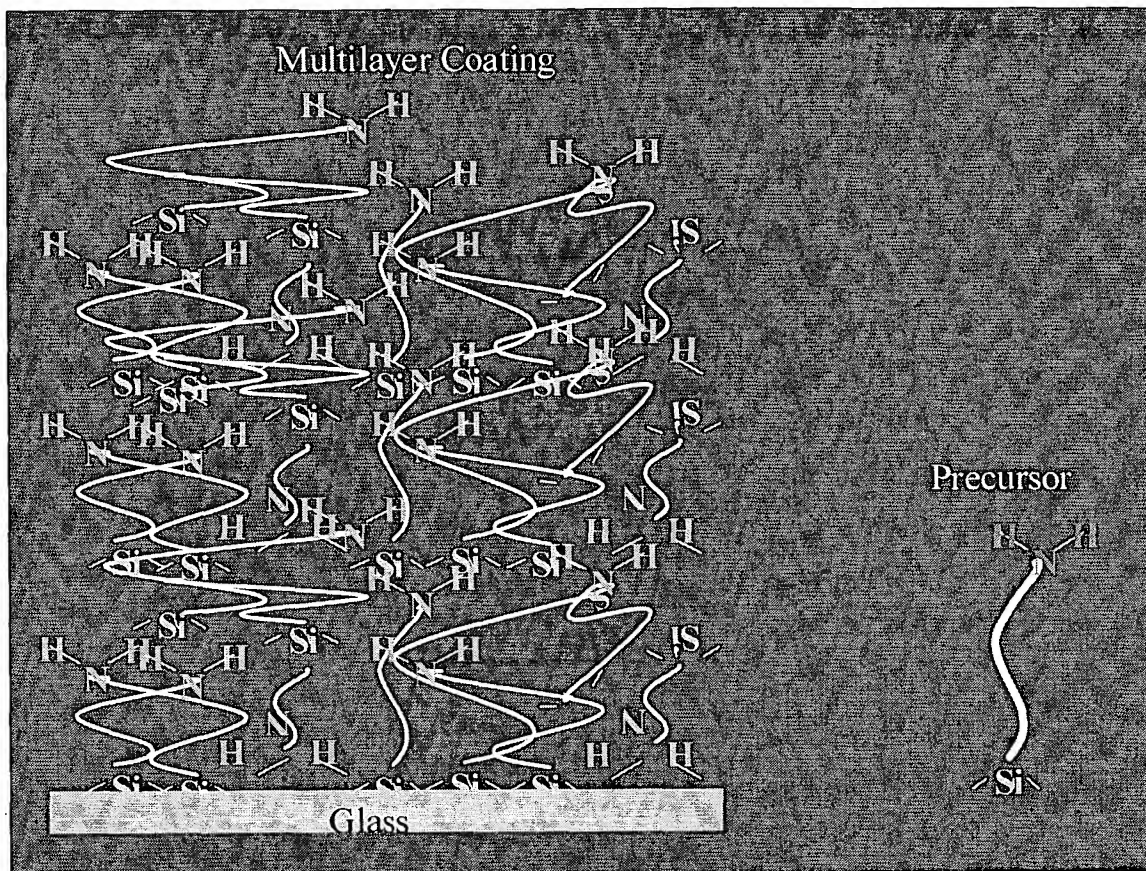
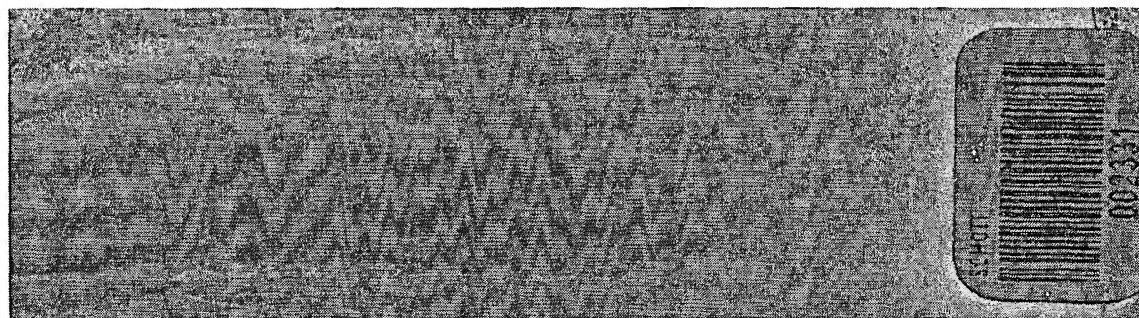
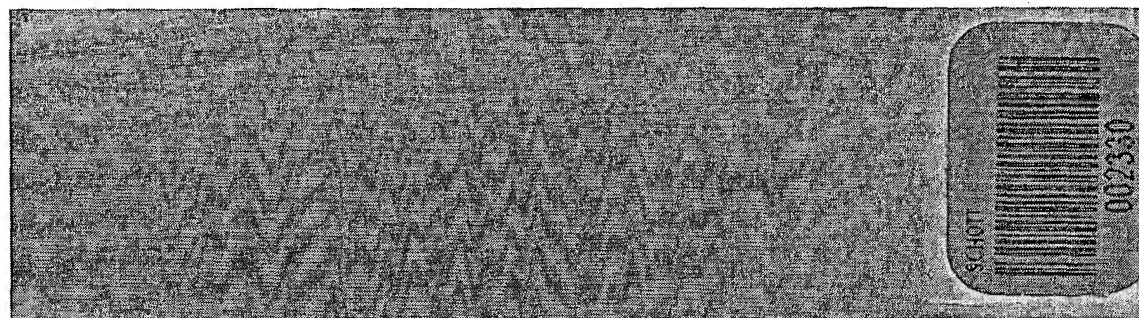


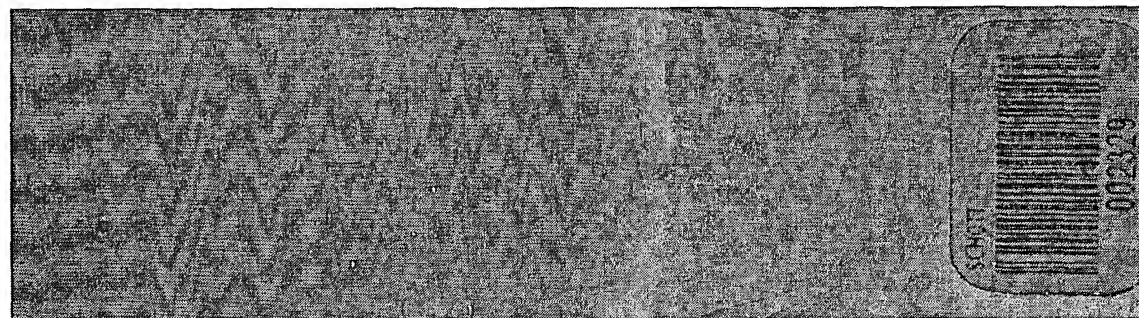
Figure 11: Staining – Vertical vs Horizontal



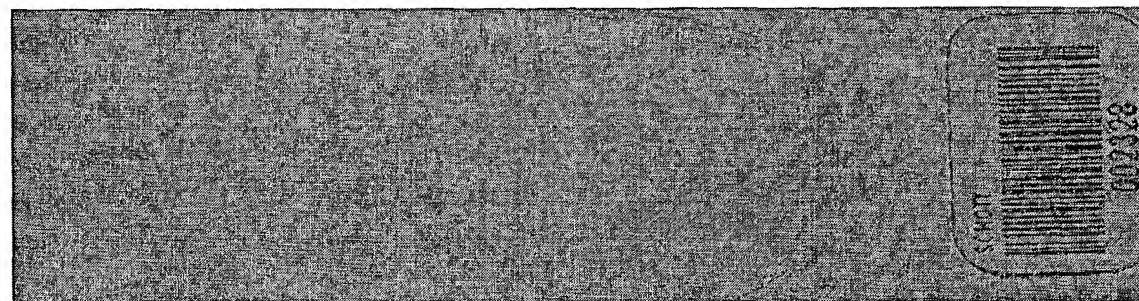
Horizontal



Horizontal



Vertical



Vertical

FIGURE 12

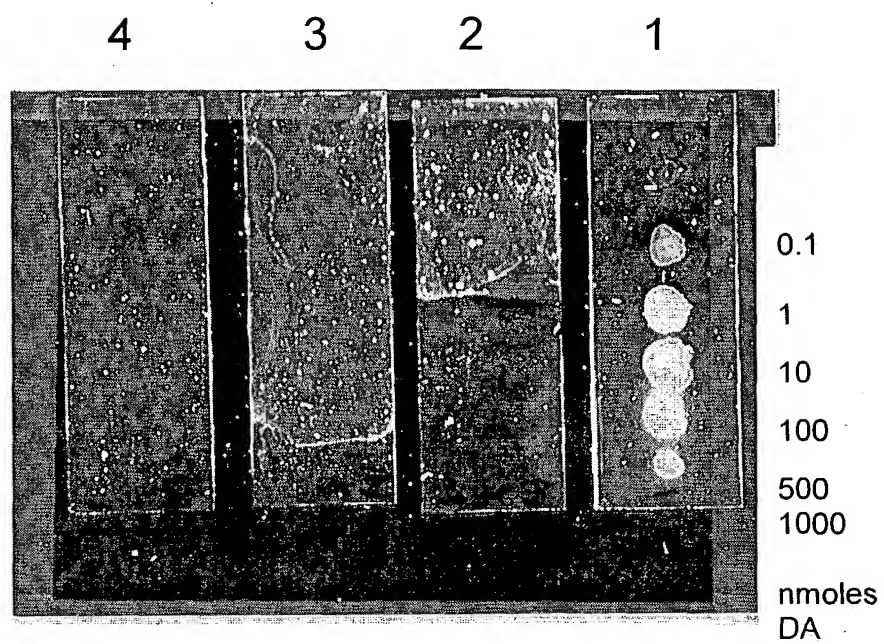


FIGURE 13

The reactive staining of slides coated with aminosilanes

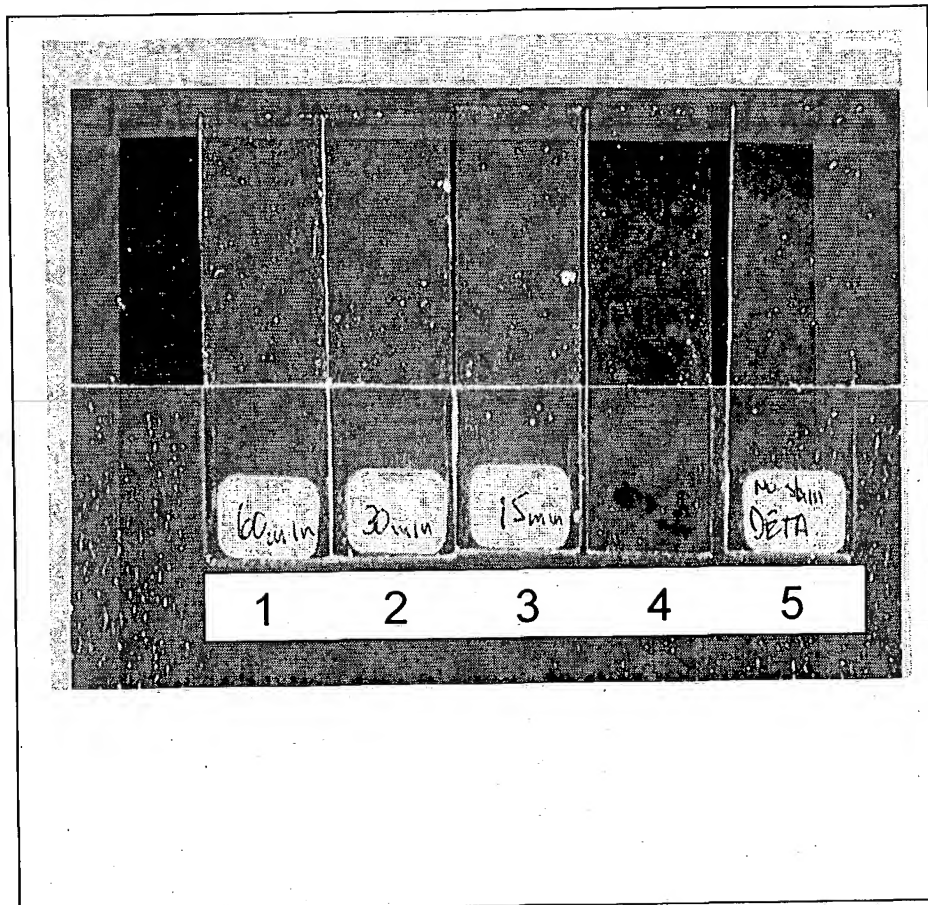


Figure 14:

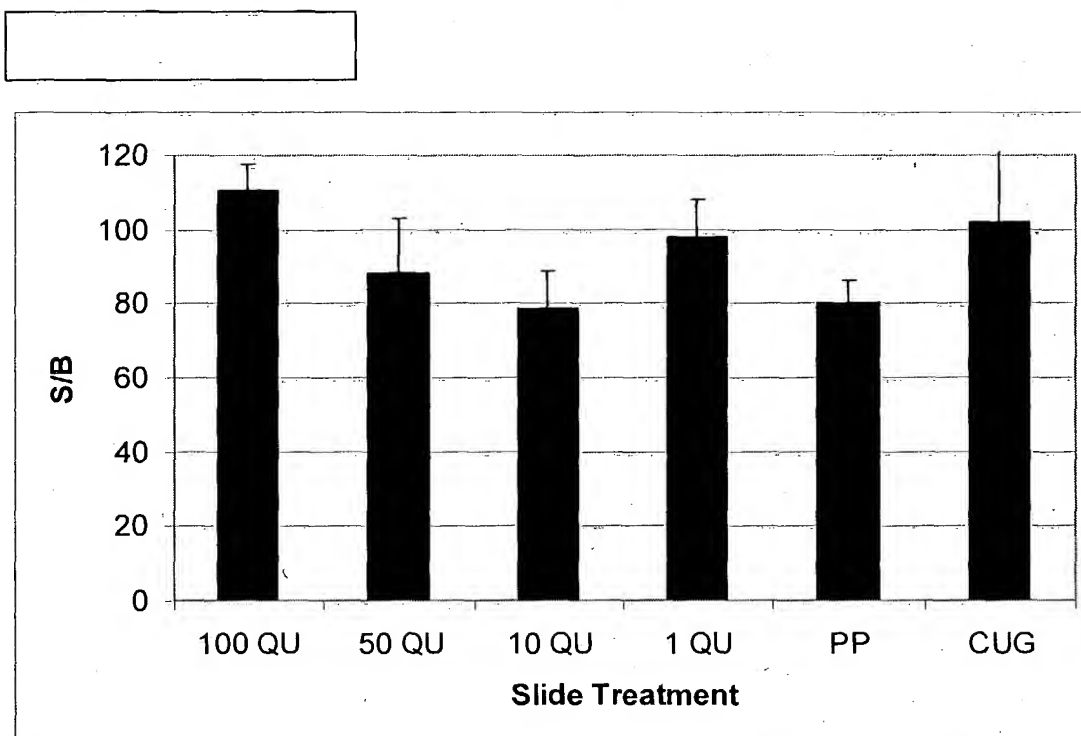
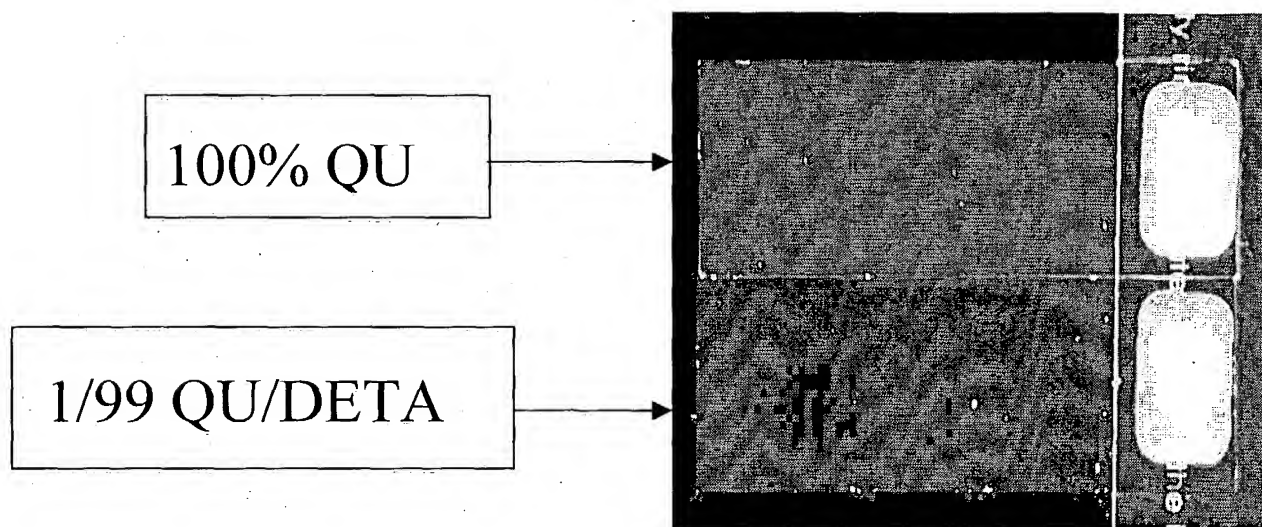
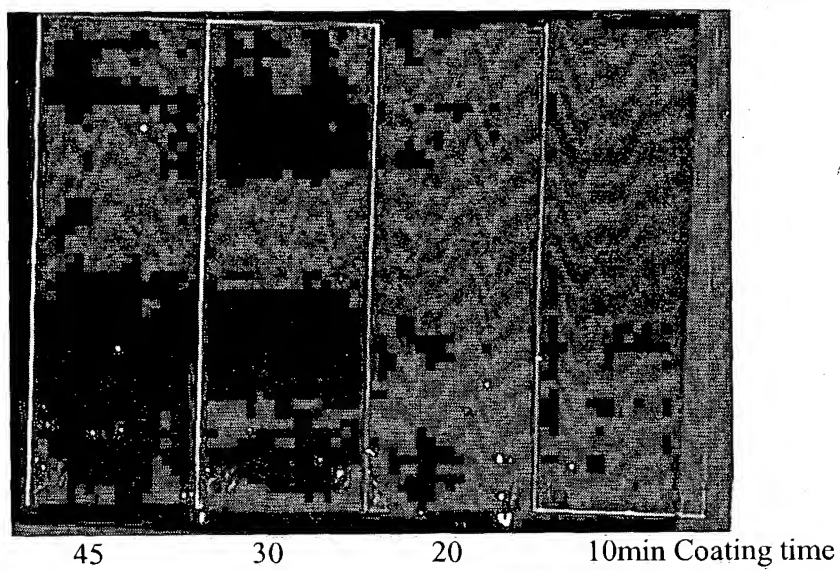
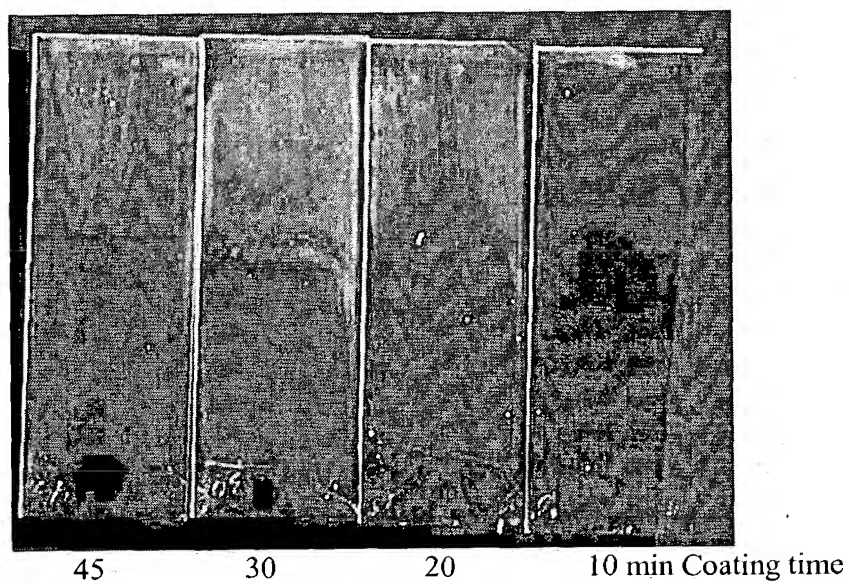


Figure 15



Unstained Hydrogel Covered slides



Half of the hydrogel covered slide was satined

Figure 16a

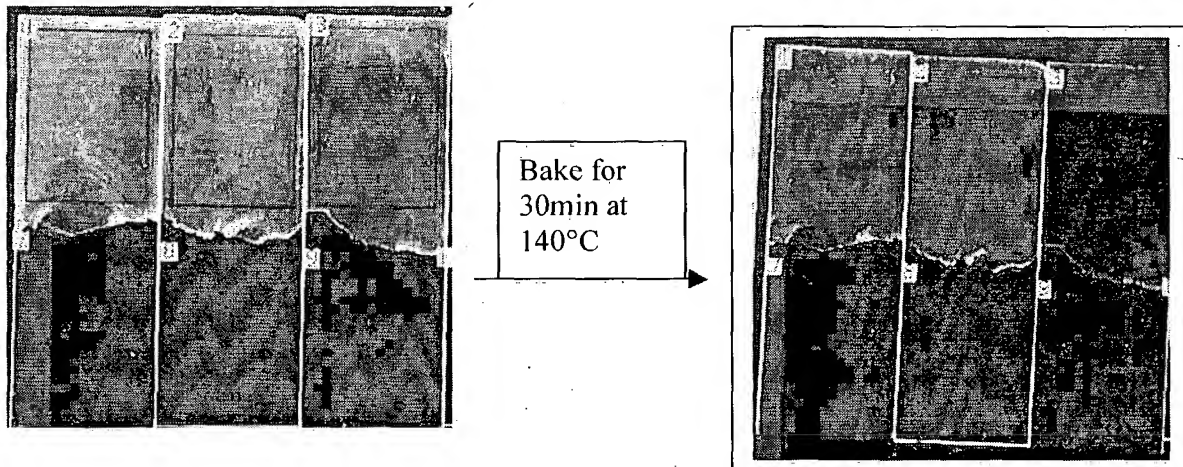


Figure 16B

